What is claimed is:

1.   A system for in-situ verification and calibration of flow control devices, comprising:

a flow verification device;

a first network physical layer for connecting the flow control devices to the flow verification device; and

a second network physical layer connected to the flow verification device;

wherein a controller of the flow verification device is programmed to verify and, if necessary, calibrate the flow control devices over the first network physical layer based upon a single command provided through the second network physical layer.

2.   A system according to claim 1, wherein the first network physical layer comprises a EtherNet/IP network physical layer.

3.   A system according to claim 1, wherein the second network physical layer comprises a DeviceNet™ network physical layer.

4.   A system according to claim 1, wherein the flow verifier is a rate-of-rise flow verifier.

5.   A system according to claim 4, wherein the flow verifier is a GBROR™ in-situ flow verifier.

6.   A system according to claim 4, wherein the flow verifier is a Tru-Flo™ in-situ flow verifier.

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7.   A system according to claim 1, further comprising flow control devices connected to the first network physical layer.

8.   A system according to claim 7, wherein the flow control devices comprise pressure insensitive type mass flow controllers.

9.   A system according to claim 1, further comprising a hub connected to the first network physical layer.

10.   A system according to claim 9, wherein the hub comprises a BlueBox™ communications manager.

11.   A method for in-situ verification and calibration of flow control devices, comprising:

connecting a flow verification device to the flow control devices through a first network physical layer;

connecting a second network physical layer to the flow verification device; and

programming a controller of the flow verification device to verify and, if necessary, calibrate the flow control devices over the first network physical layer based upon a single command provided through the second network physical layer.

12.   A method according to claim 11, wherein the first network physical layer comprises a EtherNet/IP network physical layer.

13.   A method according to claim 11, wherein the second network physical layer comprises a DeviceNet™ network physical layer.

14.   A method according to claim 11, wherein the flow verifier is a rate-of-rise flow verifier.

15.   A method according to claim 14, wherein the flow verifier is a GBROR™ in-situ flow verifier.

16.   A method according to claim 14, wherein the flow verifier is a Tru-Flo™ in-situ flow verifier.

17.   A method according to claim 11, wherein the flow control devices comprise pressure insensitive type mass flow controllers.

18.   A method according to claim 11, further comprising connecting a hub to the first network physical layer.

19.   A method according to claim 18, wherein the hub comprises a BlueBox™ communications manager.

20.   A method according to claim 11, wherein the flow verification device is put in fluid communication with the flow control devices through a gas manifold.